

Kumar Ravi Raj

E-mail: Kumarraviraj549@gmail.com

Portfolio: <https://kumarraviraj549.github.io/kumar-ravi-portfolio/>

LinkedIn: <https://www.linkedin.com/in/kumar-raviraj/>

Phone: +91 8709805710

Professional Summary

Full Stack Developer with 9+ years of experience in building scalable, secure, and cloud-native applications across e-commerce, IoT, and enterprise domains. Strong expertise in ReactJS, Next.js, Node.js, GraphQL, and REST APIs, combined with hands-on experience in AWS serverless architectures, CI/CD pipelines, and containerized deployments. Skilled in designing API-first and headless architectures, performance optimization, and secure coding practices. Experienced in both corporate (LG, TATA Elxsi, Capgemini) and freelance projects, delivering end-to-end solutions including requirement gathering, architecture, development, testing, and deployment. Proven leader mentoring teams and driving Agile delivery.

Core Technical Skills

Frontend: ReactJS, Next.js (SSR/SSG), EnactJS, Redux Toolkit, TypeScript, HTML5, CSS3 (Tailwind, Material UI)

Backend / APIs: NodeJS, ExpressJS, GraphQL, REST APIs, Microservices, Serverless (AWS Lambda / API Gateway)

Database: MongoDB, MySQL, SQLite3, PL/SQL

Cloud / DevOps: AWS (Lambda, SQS, EventBridge, Cognito, API Gateway, CDK), Docker, Azure Registry, CI/CD (GitHub Actions, Jenkins), Infrastructure as Code

Testing & Security: Jest, React Testing Library, Enzyme, Zephyr, OAuth2, JWT, role-based access, secure API design

Other Tools: Gerrit, Webpack, Postman, Git, Headless CMS (Contentful, Commerce Tools), Algolia, JAMstack

Freelance Projects (Freelancer, 2018 – Present)

- **WordPress Business Website** (WordPress, Elementor, WooCommerce, PHP, MySQL): Built and deployed a custom WordPress site for a retail business with payment integration, WooCommerce store, and SEO optimization. Configured hosting, CDN, and security plugins.
- **Cloud Migration & Serverless API** (AWS Lambda, API Gateway, DynamoDB, NodeJS): Migrated a legacy API system to AWS serverless architecture, reducing costs by 40%. Implemented CI/CD pipeline using GitHub Actions with automated deployments.
- **Learning Management System** (ReactJS, NodeJS, MongoDB, GraphQL): Developed a scalable LMS with student dashboards, progress tracking, and real-time chat. Integrated role-based authentication with JWT & OAuth2.
- **E-Commerce Platform** (MERN, Next.js, Stripe, AWS): Delivered a high-performance online store with secure authentication, cart, and Stripe integration. Deployed using AWS Lambda + API Gateway with CI/CD pipelines.
- **Business Analytics Dashboard** (ReactJS, GraphQL, NodeJS, MySQL): Built real-time KPI dashboard with role-based access, data visualization, and microservice APIs. Containerized with Docker for seamless deployment.

- Portfolio & Blog Platform (Next.js, GraphQL, Contentful): Created a personal branding site integrated with headless CMS, optimized for SEO and performance using static generation and automated GitHub Actions deployments.

Impact: Strengthened end-to-end delivery skills, including direct client communication, architecture design, secure coding, performance optimization, and cloud deployment.

Work Experience

Senior Research Engineer | LG Electronics (R&D) | Dec 2021 – Present

- Developed applications like Settings, Channel Edit, Camera, and Software Update for webOS TV.
- Created NodeJS services for inter-application communication (Luna APIs).
- Implemented new features across multiple webOS versions, delivered EPK builds with custom changes.
- Built automation test cases in Zephyr and mentored team members on quality practices.
- Contributed to E-Commerce Platforms (ECP & CP4L) built on MACH architecture and monorepo turbo.
- Technologies: NextJS, ReactJS, GraphQL, NodeJS, AWS (Lambda, EventBridge, SQS, Cognito, API Gateway, CDK), Algolia, Commerce Tools, Contentful.
- Led a 10-member team, ensuring Agile adoption, code quality, and on-time delivery.

Senior Engineer | TATA Elxsi | Jan 2020 – Dec 2021

- Onsite project with Royal Dutch Shell (Netherlands): built IoT dashboards, integrated Python APIs, and implemented SSO (OAuth/JWT). Deployed via Docker on Azure.
- For AEye (US): developed vehicle monitoring dashboard with 360° camera views, built REST APIs for real-time data.
- Containerized NodeJS applications into single binaries for simplified deployment in AWS/Docker.

Associate Consultant | Capgemini India Pvt. Ltd. | Feb 2016 – Jan 2020

- For Meijer (US Retail): developed React checkout flows, PLP/DLP/SLP pages, form validations, and W3C-compliant code.
- For Cole-Haas (US Fashion Retail): developed DB objects (procedures, triggers, views) in Oracle 10g and integrated with NodeJS services.
- Delivered hotfixes and collaborated with on-site teams to resolve production issues quickly.

Education

B.Tech in Computer Science Engineering

Certifications & Achievements

- Aspiring Certified Architect (Level 0) – Capgemini
- Algolia Certified Developer (ACD)
- MuleSoft Certified API 3.8 & Integration Developer
- Customer Delight Certificate (Capgemini)
- Customer Appreciation & Bravo Awards (TATA Elxsi)
- Secured 1st Rank in B.Tech (CSE Department)